

	9		18		27		36		45		54							
5'	AGC	TCA	TGC	TTC	TCT	GAA	GAC	TTG	CAG	CAA	GGC	TTG	CTG	AGG	CTC	ACA	GAA	GAT
	63		72		81		90		99		108							
AGC	CCC	AGT	GTT	TTG	GAG	TGG	TTT	TGA	ATG	TGA	TTT	TGA	GAT	CAG	ACT	GAC	TGA	
	117		126		135		144		153		162							
GCT	GGA	ATC	CTG	GCT	TTA	TAT	CTT	ACC	AGC	TAC	WCA	ACC	TTG	GAG	TCT	TAG	AAA	
	171		180		189		198		207		216							
TTT	TTT	CTT	TTC	ART	AAG	CAG	TCA	TCC	TTA	CTT	TCC	CTC	AAG	ATG	ACA	AAC	AGT	
														M	T	N	S	
	225		234		243		252		261		270							
TCG	TTC	TTC	TGC	CCA	GTT	TAT	AAA	GAT	CTG	GAG	CCA	TTC	ACG	TAT	TTT	TTT	TAT	
S	F	F	C	P	V	Y	K	D	L	E	P	F	T	Y	F	F	Y	
	279		288		297		306		315		324							
TTA	GTT	TTC	CTT	GTT	GGA	ATT	ATT	GGA	AGT	TGT	TTT	GCA	ACC	TGG	GCT	TTT	ATA	
L	V	F	L	V	G	I	I	G	S	C	F	A	T	W	A	F	I	
	333		342		351		360		369		378							
CAG	AAG	AAT	ACG	AAT	CAC	AGG	TGT	GTG	AGC	ATC	TAC	TTA	ATT	AAT	TTG	CTT	ACA	
Q	K	N	T	N	H	R	C	V	S	I	Y	L	I	N	L	L	T	
	387		396		405		414		423		432							
GCC	GAT	TTC	CTG	CTT	ACT	CTG	GCA	TTA	CCA	GTG	AAA	ATT	GTT	GTT	GAC	TTG	GGT	
A	D	F	L	L	T	L	A	L	P	V	K	I	V	V	D	L	G	
	441		450		459		468		477		486							
GTG	GCA	CCT	TGG	AAR	CTG	AAG	ATA	TTC	CAC	TGC	CAA	GTA	ACA	GCC	TGC	CTC	ATC	
V	A	P	W	K	L	K	I	F	H	C	Q	V	T	A	C	L	I	
	495		504		513		522		531		540							
TAT	ATC	AAT	ATG	TAT	TTA	TCA	ATT	ATC	TTC	TTA	GCA	TTT	GTC	AGC	ATT	GAC	CGC	
Y	I	N	M	Y	L	S	I	I	F	L	A	F	V	S	I	D	R	
	549		558		567		576		585		594							
TGT	CTT	CAG	CTG	ACA	CAC	AGC	TGC	AAG	ATC	TAC	GGA	ATA	CAA	GAA	CCC	GGG	TTT	
G	I	C	I	T	H	C	C	V	I	V	P	A	G	A	D	C	F	
	603		612		621		630		639		648							
GCC	AAA	ATG	ATA	TCA	ACC	GTT	GTG	TGG	CTA	ATG	GTC	CTT	CTT	ATA	ATG	GTG	CCA	
A	K	M	I	C	T	V	V	W	I	M	V	D	I	T	M	V	P	

FIGURE 1A

657	666	675	684	693	702
AAT ATG ATG ATT CCC	ATC AAA GAC	ATC AAG GAA	AAG TCA AAT	GTG GGT TGT	ATG
N M M I P	I K D I K E K S N V G C M				
711	720	729	738	747	756
GAG TTT AAA AAG GAA	TTT GGA AGA	AAT TGG CAT	TTG CTG ACA	AAT TTC ATA	TGT
E F K K E F G R N W H L L T N F I C					
765	774	783	792	801	810
GTA GCA ATA TTT TTA	AAT TTC TCA	GCC ATC ATT	TTA ATA TCC	AAT TGC CTT	GTA
V A I F L N F S A I I L I S N C L V					
819	828	837	846	855	864
ATT CGA CAG CTC TAC	AGA AAC AAA	GAT AAT GAA	AAT TAC CCA	AAT GTG AAA	AAG
I R Q L Y R N K D N E N Y P N V K K					
873	882	891	900	909	918
GCT CTC ATC AAC ATA	CTT TTA GTG	ACC ACG GGC	TAC ATC ATA	TGC TTT GTT	CCT
A L I N I L L V T T G Y I I C F V P					
927	936	945	954	963	972
TAC CAC ATT GTC CGA	ATC CCG TAT	ACC CTC AGC	CAG ACA GAA	GTC ATA ACT	GAT
Y H I V R I P Y T L S Q T E V I T D					
981	990	999	1008	1017	1026
TGC TCA ACC AGG ATT	TCA CTC TTC	AAA GCC AAA	GAG GCT ACA	CTG CTC CTG	GCT
C S T R I S L F K A K E A T L L L A					
1035	1044	1053	1062	1071	1080
GTG TCG AAC CTG TGC	TTT GAT CCT	ATC CTG TAC	TAT CAC CTC	TCA AAA GCA	TTC
V S N L C F D P I L Y Y H L S K A F					
1089	1098	1107	1116	1125	1134
CGC TCA AAG GTC ACT	GAG ACT TTT	GCC TCA CCT	AAA GAG ACC	AAG GCT CAG	AAA
R S K V T E T F A S P K E T K A Q K					
1143	1152	1161	1170	1179	1188
GAA AAA TTA AGA TGT	GAA AAT AAT	GCA TAA AAG	ACA GGA TTT	TTT GTG CTA	CCA
E K L R C E N N A					
1197	1206	1215	1224	1233	1242
AAT CTG GTC TTA CTG	GAC CAT AAA	GTT AAT TAT	AGC TTT GAA	AGA TAA AAA	AAA
1251					
AAA AAA AAA AAA AA 3'					

FIGURE 1B

1 M T N S S E F C F V Y - - - [K D L E P F T Y] - - - - - - - - - - - 346874
1 M N S F V Y T P D Y G H Y D D K D T L D L N T P V D K T S N T L R V P D I L A G I 115262
20 - - E F I L V F L V G I I G S C F A T W - - A F I Q K N T N H R C V S I Y L I N 346874
41 L V I F A V V F L V G V L G N A L V V W T A F E A K R T I N - - - A I W F L N G I 115262
56 L L T A C F I L L T L A L P V K I V V D L G V A P W K K I F H C Q V T A C L I Y 346874
78 L A V A C F I S C L A L P I L F T S I V Q H H H W P F G G A A C S I L P S L I L G I 115262
96 I N M Y L S I I F L A F V S I D R C L Q L T H S - - C K I Y R I Q E P G F A K M 346874
118 L I N M Y A S I L L L A T I S A D R F L L V F K P I W C Q N F R - - G A G L A W I G I 115262
134 I S T V V W L M V L L I M V P N M M I P I K D I K E K - - - S N V G C - M E F K 346874
156 A C A V A W G L A L L L T I P S F L Y R V - - V R E E Y F P P K V L C G V D Y S G I 115262
170 K E F C R N W H L L T N F I C V A I F L N F - S A I I L I S N C L V I R Q L Y R 346874
194 H D K R P E R A V A I - - - V R L V L G F L W P L L T L T I C Y T F I - L L R G I 115262
209 N K D G E N Y P N V K K A L I N I L L V T T G Y I I C F V P Y H I V R I P Y T L 346874
229 T W S - R A T R S T K T L K V V V A V V A S F F I F W L P Y Q V T G I M M S F G I 115262
249 S C T E V I T D C S T R I S L F K A K E A T L L A V S N L C F D P I L Y Y H L 346874
268 - - - L E P S S P T F L L L N K L D S L C V S F A Y I N C C I N P I I Y V V A G I 115262
289 S F A P R S K V T E T F A S - - - - - - - P K E T K A - - - - Q K E K 346874
304 G G G I Q G R L R K S L P S L L R N V L T E E S V V R E S K S F T R S T V D T M G I 115262
313 L F C E N N A 346874
344 A C K Q A 7 G I 115262

FIGURE 2

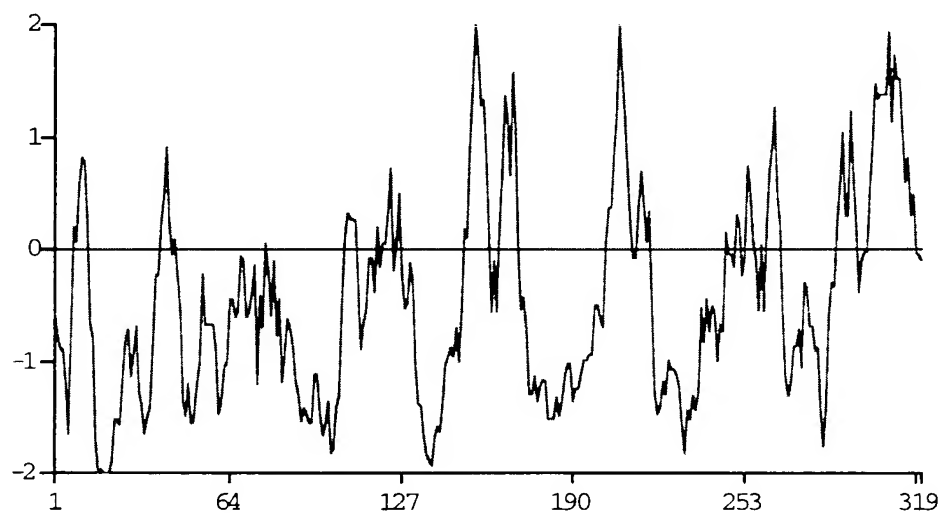


FIGURE 3A

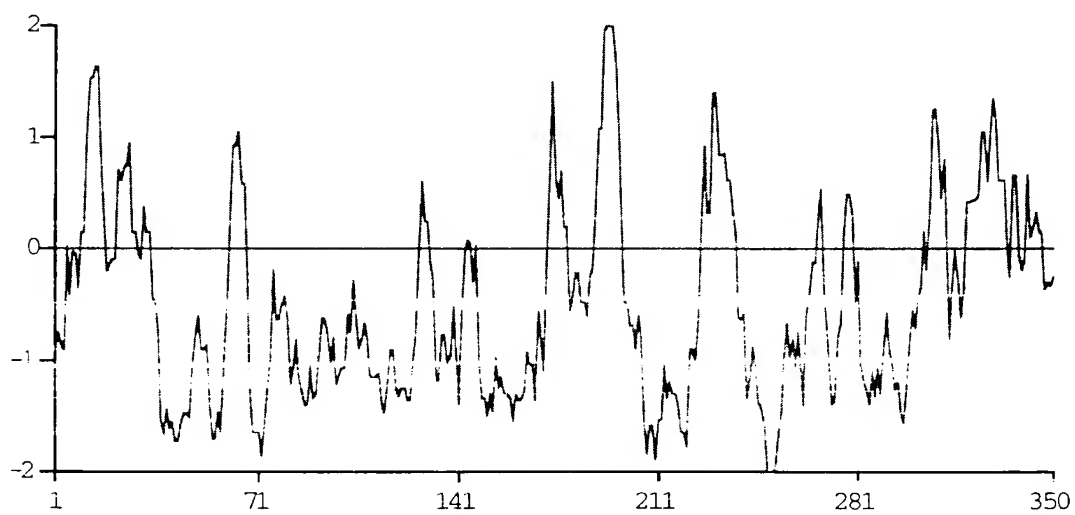


FIGURE 3B